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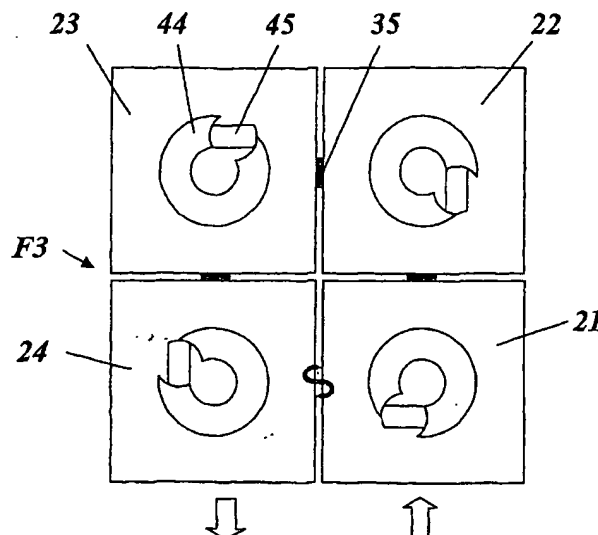
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LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI,  
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG,  
SK (Gebrauchsmuster), SK, SL, SY, TJ, TM, TN, TR, TT,  
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[Fortsetzung auf der nächsten Seite]

(54) Title: TUNABLE HIGH-FREQUENCY FILTER ARRANGEMENT AND METHOD FOR THE PRODUCTION THEREOF

(54) Bezeichnung: ABSTIMMBARE HOCHFREQUENZ-FILTERANORDNUNG SOWIE VERFAHREN ZU IHRER  
HERSTELLUNG



(57) Abstract: A high-frequency filter arrangement comprising at least one filter (F3) consisting of a plurality of high-frequency inter-coupled cavities (21,..., 24) in which a locally fixed respective dielectric resonator element (44) is disposed and in which a respective dielectric body (44) can be modified, in order to tune the frequency of the filter (F3), in the position thereof in relation to the dielectric resonator element (44). The structure of the inventive filter arrangement is simple, compact and economical and excellent filter and tuning properties are obtained by virtue of the fact that the dielectric body (45) is arranged in an eccentric recess of the dielectric resonator element (44) and that the dielectric body (45) is rotatably arranged in the eccentric recess (59).

[Fortsetzung auf der nächsten Seite]

# INTERNATIONAL SEARCH REPORT

International Application No.

PCT/CH 03/00748

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01P7/10 H01P1/208 G09B23/32

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01P H03B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

PAJ, EPO=Internal, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WEI KE HUI ET AL: "DIELECTRIC RING-GAP RESONATOR FOR APPLICATION IN MMIC'S" IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, IEEE INC. NEW YORK, US, vol. 39, no. 12, 1 December 1991 (1991-12-01), pages 2061-2068, XP000241131 ISSN: 0018-9480 page 2061, right-hand column, line 22-25; figure 1	1
A	PATENT ABSTRACTS OF JAPAN vol. 010, no. 332 (E-453), 12 November 1986 (1986-11-12) -& JP 61 136302 A (MURATA MFG CO LTD), 24 June 1986 (1986-06-24) abstract; figures 1-3	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

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# INTERNATIONAL SEARCH REPORT

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PCT/CH 03/00748

## C<sub>1</sub>(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 612 655 A (STRONKS JOHN ET AL) 18 March 1997 (1997-03-18) column 3, line 63 -column 4, line 30 column 6, line 41 -column 7, line 33; figures 4,10	1
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A	EP 0 601 369 A (ANT NACHRICHTENTECH) 15 June 1994 (1994-06-15) the whole document	1

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Information on patent family members

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